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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/670,380

09/26/2003

Sang-Hyuk Lee

041993-5240

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7590

11/15/2005

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EXAMINER

DUONG, TAI V

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

EL

Office Action Summary	Application No. 10/670,380	Applicant(s) LEE, SANG-HYUK	
	Examiner Tai Duong	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 August 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 and 6-19 is/are pending in the application.
 4a) Of the above claim(s) 4 and 8 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6, 7 and 9-18 is/are rejected.
- 7) ☒ Claim(s) 19 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claims 4 and 8 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 04/04/05.

This application contains claims 4 and 8 drawn to a nonelected species with traverse in the reply filed on 04/04/05. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 6, 7, 9, 10 and 12-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al'467 (Pub. No. 2003/0178467) in view of Lee et al'547 (Pub. No. 2002/0101547).

Amended claims 1, 6 and 9 newly recite the step of *subsequently* discharging at least one surface (the thin film transistor substrate) of the liquid crystal display panel using an ionizer system. Lee et al'467 disclose a method comprising the step of *subsequently* discharging the substrates of the LCD panel after the step of forming a liquid crystal layer between the two substrates to form a liquid crystal display panel (paragraphs 0062, 0081). As to claims 17 and 18, see paragraphs 0078 and 0090 of Lee'467. Thus, the only difference between the method of Lee et al'467 and that of the

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instant claims is Lee et al'467 are silent about the liquid crystal display panel being a color active matrix LCD panel. However, Lee et al'547 disclose that it is common in the art to manufacture color active matrix LCD panels (paragraph 0007). Also, see paragraphs 0013, 0154 of Lee'547 for the lighting test (visual display test), the removal of the shorting bar and paragraph 0108 for the alignment layer. Thus, it would have been obvious to a person of ordinary skill in the art in view of Lee et al'547 to employ in Lee's method a color active matrix LCD panel for manufacturing color LCD panels with high resolution and high contrast. As to claim 15, it would have been obvious to a person of ordinary skill in the art to dispose a cleaning unit for cleaning the LCD panel after the removal of the shorting bar for removing dust from the LCD panel thereby obtaining an accurate visual display test.

Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al'467 and Lee et al'547 as applied to claim 9 above, and further in view of the M. Ohta et al article cited by Applicant and Tanaka et al'435 of record.

The only differences between the method cited in the above rejection of claim 9 and that of claims 10 and 11 are forming the alignment layer by applying a thin film of polymer and performing a rubbing process, and the thin film transistor substrate including a thin film transistor, a pixel electrode and a common electrode (in-plane switching mode). . As to claim 10, it would have been obvious to a person of ordinary

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skill in the art to form the alignment layer includes applying a thin film of polymer and performing a rubbing process for uniformly aligning the liquid crystal molecules, as evidenced by Tanaka et al (col. 22, line 63 – col. 23, line 36). The M. Ohta et al article discloses that it was known to employ the thin film transistor substrate including a thin film transistor, a pixel electrode and a common electrode. Thus, it would have been obvious to a person of ordinary skill in the art in view of M. Ohta et al to employ in the method cited in the above rejection of claim 9 the thin film transistor substrate including a thin film transistor, a pixel electrode and a common electrode for fabricating a wide-viewing angle LCD.

Claims 19 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 19 would be allowed over the prior art because none of the prior art discloses or suggests a method as recited in claim 15 *in combination* with the step of providing a discharging device at each of the cleaning unit and the lighting test unit for removing an electrostatic charge from a back surface of the first substrate.

Applicant's arguments with respect to amended claims 1, 6 and 9 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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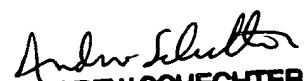
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to Tai Duong at telephone number (571) 272-2291.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.


TVD

11/05


ANDREW SCHECHTER
PRIMARY EXAMINER